RESPONSE UNDER 37 C.F.R. § 1.116 and Attorney Docket No.: Q78015

Request to Withdraw Finality Application No.: 10/765,471

REMARKS

Request to Withdraw Finality of Action March 22, 2007

Claims 1, 3, 5, 7, 8, 10-12, 14-17, 19 and 20 are all the claims pending in the application.

Claim 1 was amended in the Amendment filed December 19, 2006 by adding a recitation of Zr in an amount of 10-40 ppm. Further it was argued that the amount of Zr, i.e., 0.01 - 0.15 % (i.e., 100 - 1500 ppm), described in Nishikawa does not teach or suggest the present invention, particularly in view of the disclosure at column 4, lines 5-12 describing that Zr is necessary to form a uniform hydrophilic surface on the support and that an amount of Zr less than 0.01 wt% does not fully produce this effect. Thus, it was argued that Nishikawa teaches away from using an amount of Zr less than 0.01 wt% and thus teaches away from the present invention.

However, in the Final Action dated March 22, 2007, the Examiner did not specifically address this claim amendment or Applicants' argument presented in the Amendment filed on December 19, 2006, on the merits, which is improper.

MPEP § 707.07(f) requires the Examiner to provide clear explanations of all actions taken during the prosecution of the application in order to provide a complete prosecution history and to enhance clarity of the prosecution history record. Further, the Examiner should respond specifically to traversals. ("Where the applicant traverses any rejection, the examiner, should, if he or she repeats the rejection, take note of the applicant's argument and answer the substance of it.").

Further, Applicants respectfully submit that maintaining the finality of the Office Action dated March 22, 2007, and failing to reopen prosecution under these circumstances is unfair to Applicants and against public policy. Applicants should be given a fair opportunity to define his or her invention in claims that will give patent protection to which the Applicants are entitled and

Applicants should not be prematurely cut off in the prosecution of the application. MPEP

§706.07. Specifically, the MPEP states:

The examiner should never lose sight of the fact that in every case the applicant is entitled to a full and fair hearing, and that a clear

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issue between applicant and examiner should be developed, if

possible before appeal.

This cannot be achieved where the Examiner fails to respond to claim amendments and

Applicants' specific arguments in response to a rejection. The Examiner's failure to address all

of the claim amendments and arguments submitted in the Amendment filed on December 19,

2006, makes it difficult for Applicants to determine how best to proceed in the prosecution of the

present application.

Accordingly, Applicants respectfully request withdrawal of the finality of the Office

Action dated March 22, 2007 and issuance of a new Office Action with a new time period for

reply, addressing the amendment of claim 1 and the arguments presented in the Amendment filed

on December 19, 2006 on the merits.

II. Response to § 103 Rejections

Claims 1, 3, 5, 7, 8, 10-12 and 14-16 are rejected under 35 U.S.C. § 103(a) as being

unpatentable over Nishikawa et al (EP 211 574 A1). Also, on page 3 of the Office Action, in

paragraph 5, claims 1, 3, 5, 7, 8, 10-12, 14-17 and 19-20 are rejected under 35 U.S.C. § 103(a) as

allegedly being unpatentable over Hotta et al (EP 1 013 429 A1) in view of Nishikawa.

As noted above, claim 1 has been amended by reciting an amount of Zr of 10-40 ppm,

which is not taught or suggested by the cited references, whether taken alone or in commination.

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Applicants note initially that Nishikawa at best has 0.01 - 0.15 wt% (100 - 1500 ppm) of Zr (see column 4, line 17).

On the contrary, in the present invention, Zr is not purposely added to aluminum, and the amount of the unavoidable impurity level contained in Al ingots is 10 - 40 ppm of Zr at most.

Accordingly, the 0.01 - 0.15 % (i.e., 100 - 1500 ppm) Zr described in Nishikawa does not teach or suggest the present invention, particularly in view of the disclosure at column 4, lines 5-12 describing that Zr is necessary to form a uniform hydrophilic surface on the support and that an amount of Zr less than 0.01 wt% does not fully produce this effect, thereby teaching away from using an amount of Zr less than 0.01 wt% and thus teaching away from the present invention.

Seen from this point, Nishikawa and the present invention are significantly different from each other in Al alloy composition.

Also, Applicants note that the Examiner maintains the position that the range of less than 0.05 % Mg of the present invention is obvious in view of the 0.05 to 3 % Mg range taught by Nishikawa.

In response to this point. Applicants wish to emphasize that Mg is an element which significantly affects the mechanical strength of Al and that the range of less than 0.05 % Mg in the present invention is not obvious from the range of 0.05 to 3 % Mg taught by Nishikawa, as discussed below.

As described at column 2, line 30 to column 3, line 15 of Nishikawa, the aluminum conventionally used for the support of a lithographic printing plate is AA1050 (purity 99.5 wt% Al), AA1100 (purity 99.0 wt% Al), or AA3003 (A1 - 0.05 to 0.2 wt% Cu - 1.0 to 1.5 wt% Mn

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alloy), which has a disadvantage that holding parts break if the mechanical strength of a printing plate is low since printing speed has been increasing recently.

Thus, an attempt has been made to use AA6000 (Al-Mg-Si alloy), known as a high strength alloy, as the support for lithographic printing plates. However, such a support has a disadvantage that the surface is not uniformly grained.

In order to solve such a disadvantage of the prior art, Nishikawa carried out extensive studies to find an aluminum alloy for lithographic printing plates which has high mechanical strength, good heat softening resistance, and good water retentive property.

The invention of Nishikawa uses as the support an aluminum plate obtained by hot rolling and cold rolling followed by annealing after a small amount of Zr is added to an Al-Mg-Si to obtain a slab.

In the meantime, since Mg is not purposely added in the present invention, the claims recite Mg of less than 0.05 wt%. Also, Zr is not purposely added. Applicants submit that the alloy compositions set forth in claims of the present application, specifically, Mg of less than 0.05 wt%, would not have been obvious from the range of 0.05 to 3 % Mg taught by Nishikawa. In the present invention, the ingredients are close to AA 1050, which is not obvious over the invention of Nishikawa based on AA6000 (Al-Mg-Si alloy). In this regard, Applicants note that Nishikawa describes that AA 1050 is unsatisfactory in mechanical strength (see columns 1-2).

Applicants note that a Japanese description of the 1050's and 6000's composition based on a JIS standard and an English translation thereof were previously submitted with the Amendment filed December 19, 2006.

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Also, a copy of the relevant portion of the reference "The Basic and Industrial Technology of Aluminum Materials" (published by Japan Institute of Light Metals, May 1, 1985 edition), p. 318, and an English translation thereof was submitted with the Amendment filed December 19, 2006, which is mentioned in support of the argument that the method allowing Mg and Si to coexist is a method used for JIS 6000 alloy, wherein the heat treatment called solution treatment is performed to improve strength.

The problem that occurs when the composition is as described in Nishikawa except Mg of less than 0.05 wt% is added as in the present invention is unsatisfactory strength. The reason for this is described at column 3, lines 38 to 40 of Nishikawa. In particular, Nishikawa describes that "[w]ith Mg less than 0.05 wt% and Si less than 0.05 wt%, the alloy plate does not have the required strength". Since strength heavily depends on Mg, the material of the composition described in Nishikawa does not have the required strength if Mg of less than 0.05 wt% as in the present invention is used.

On the contrary, the problem when Zr of Nishikawa is added to the composition of the present invention is that it causes unsatisfactory recrystallization and poor surface quality. The reason is as follows. Nishikawa lists some functions of Zr at column 4, lines 5 to 20, and specifically describes in lines 18 to 20 that "[s]ince Zr delays the recrystallization of the alloy, it effectively prevents the plate from becoming dull or distorted by heat". When Zr of the Nishikawa range is added to the material of the present invention, it becomes hard for recrystallization to occur, and when heat treatment is performed by using a continuous annealing furnace as described in the Example, recrystallization is delayed. As a result, a part of the crystalline composition that remains extended in a rolling direction is likely to be left, which

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causes a poor external appearance after the surface treatment. Accordingly, Applicants submit

that the range of the present invention would not have been obvious from the alloy of Nishikawa

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for the one of ordinary skill in the art.

Additionally, in the heat treatment condition described in the Example of the present

application, the product of Mg2Si as shown in Nishikawa cannot be sufficiently made, and

accordingly, there is no effect and no need to protect the crystallization of Mg2Si effective in

improving strength as shown in Nishikawa from becoming coarse.

Thus, Applicants submit that the present invention is not obvious from the cited art, and

withdrawal of these rejections is respectfully requested.

Conclusion

In view of the above, reconsideration and allowance of this application are now believed

to be in order, and such actions are hereby solicited. If any points remain in issue which the

Examiner feels may be best resolved through a personal or telephone interview, the Examiner is

kindly requested to contact the undersigned at the telephone number listed below.

The USPTO is directed and authorized to charge all required fees, except for the Issue

Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any

overpayments to said Deposit Account.

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